

IN THE CLAIMS

Please cancel claims 25 through 31 without prejudice or disclaimer of their subject matter, and substitute new claims 32 through 35. Claims 1 through 24 had been previously canceled.

Claims 1 through 31. (Canceled)

32. (New) A method comprising:

receiving a power control parameter of a mobile station located within a common cell area of a public and private radio mobile communication system from a base station controller of the public and private radio mobile communication system, the power control parameter being received in a base station of the public and private radio mobile communication system;

receiving power-related information in the base station, the power-related information being related to a received power level of the base station at the mobile station and being generated and transmitted from the mobile station to the base station;

detecting information as to a frame quality by determining a forward frame error rate from the received power-related information in the base station;

comparing in the base station the determined forward frame error rate with a value corresponding to the power control parameter received from the corresponding base station controller to provide a determined power level of the mobile station;

15 determining in the base station when the determined power level of the mobile station
16 has decreased below a predetermined reference power level indicating that the mobile station
17 has seceded from a selected cell of the mobile communication system;

18 determining in the base station if the mobile station is registered in the private radio
19 mobile communication system upon the determined power level of the mobile station being
20 less than the predetermined reference power level;

21 transmitting information to generate an alarm indicating an occurrence of a cell
22 secession from the base station to the corresponding mobile station upon a determination that
23 the mobile station is registered in the private radio mobile communication system; and

24 transmitting no cell secession alarm information from the base station to the
25 corresponding mobile station upon a determination that the mobile station is not registered
26 in the private radio mobile communication system.

1 33. (New) The method as claimed in claim 32, the power-related information
2 including at least one of a power measurement report message as to the received power level
3 from the mobile station and an erasure indicator bit as to an error detected field.

1 34. (New) An apparatus comprising:
2 a base station of the mobile communication system adapted to receive power-related
3 information transmitted from a mobile station located within a common cell area of a public
4 and private radio mobile communication system, the power-related information being related

5 to a received power level of the base station at the mobile station and being generated and
6 transmitted from the mobile station to the base station;

7 an analyzer arranged within the base station and adapted to analyze the received
8 power-related information to determine when a power level of the mobile station has
9 decreased below a predetermined reference power level indicating that the mobile station has
10 seceded from a selected cell of the mobile communication system;

11 the analyzer also adapted to determine if the mobile station is registered in the private
12 radio mobile communication system upon a determination that the power level of the mobile
13 station is less than a predetermined reference power level;

14 a transmitter adapted to transmit cell secession alarm information to generate an alarm
15 indicating an occurrence of a cell secession from the base station to the corresponding
16 mobile station upon a determination that the mobile station is registered in the private radio
17 mobile communication system; and

18 the transmitter adapted to transmit no cell secession alarm information from the base
19 station to the corresponding mobile station upon a determination that the mobile station is
20 not registered in the private radio mobile communication system.

1 35. (New) The apparatus as claimed in claim 34, wherein the transmitter is adapted
2 to transmit a predetermined tone control message over a forward traffic channel of the
3 mobile communication system indicating that the mobile station has seceded from the
4 selected cell of the mobile communication system.